

# BBNA Tribal Energy Efficiency & Conservation Block Grant Program

Administered by Alaska Building Science Network

## Naknek Final Report



### Community Summary

One (1) community building owned by the Naknek Village Council received energy efficient weatherization and heating upgrades as follows:

Village Council Office

Retrofits Completed: August 2012

### Village-Wide Energy Efficient Weatherization and Heating Retrofit Summary:

#### Total Building Savings All Measures:

• Projected Annual Electrical Savings (kWh):	153
• Projected Annual Electrical Cost Savings:	\$56 <sup>1</sup>
• Projected Annual Fuel Savings (gallons):	476
• Projected Annual Heating Fuel Cost Savings:	\$1,852 <sup>2</sup>
• Total Projected Annual Energy Cost Savings:	<b>\$1,908</b>
• Total village wide In-kind contribution:	\$1,512
• Total project cost including In-kind contributions:	\$40,803
• Simple Payback (including In-kind contributions):	<b>21.39 years</b>

<sup>1</sup> kWh Rate [used to calculate electrical cost savings] for Weatherization & Heating Measures (AkWarm Library): \$0.37

<sup>2</sup> #2 Heating Fuel Rate [used to calculate heating fuel savings] (AkWarm Library): \$3.89/gal

## Village Council Office

### Weatherization/Heating Retrofit Summary:



### Materials Installed

Air sealing materials shipped for installation by local work force

Spray foam insulation materials shipped for installation by local work force

Small laser stove shipped for installation by local workforce to reduce oil usage

Air sealing materials and spray foam will be installed in additional tribal buildings by local workforce

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|---|--------------------------------|
| • Pre-retrofit energy use:                        | 2,327 gallons / 746 kWh        |
| • Post-retrofit energy:                           | 1,851 gallons / 593 kWh        |
| • Annual energy savings projection:               | 476 gallons / 153 kWh          |
| • Pre-retrofit to post retrofit energy reduction: | 20% (Fuel) / 21% (Electricity) |
| • Estimated Annual Heating Fuel Cost Savings:     | <b>\$1,851.64</b>              |
| • Estimated Annual Electrical Cost Savings:       | <b>\$56.19</b>                 |